

Work Order ID 53596

November 9, 2009 1:41:21 PM



Page 1

Item ID: D350-607-043A

Accept



Setup Start



Revision ID:

Stop



Item Name: Heli-Utility-Basket (Automatic Lid Opener)

Start Date: 09/11/2009 Start Qty: 1.00



Cust Item ID:

Required Date: 20/11/2009 Req'd Qty: 1.00

Customer:

Reference:

Approvals: Process Plan: RF Date: 09-11-9 Tooling: _____ Date: _____
QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Run Start



Stop



Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Draw Number	Draw Rev.	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
--------------------------------	--------------------------	----------------------	----------------	--------------	--------------	---------------	---------------	------------------	----------------

Draw Nbr	Revision Nbr
DSI 9473	A

MAA

100 0.00



DOCUMENT CONTROL

DC

Memo

0.00

Document Control

Photocopy bluefile & type labels per PPPD350-607-043A CHG001

S on 11/25

110 0.00



Pick Kit

Packaging

Memo

0.00

Packaging

9/11/10 *QSP*

120 0.00



Small Fab

Small Fab

Memo

0.00

Small Fab

Assemble as per Dwg D350-607
Seal Support Gusset with Sikaflex -291
Batch: m112391
Exp Date: 10/20

BK 09-11-24 *Q.*

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Item ID: D350-607-043A

Accept



Setup Start



Revision ID:

Stop



Item Name: Heli-Utility-Basket (Automatic Lid Opener)

Start Date: 09/11/2009 Start Qty: 1.00



Cust Item ID:

Required Date: 20/11/2009 Req'd Qty: 1.00



Customer:

Reference:

Run Start



Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____

Stop



QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Sequence ID/
Work Center ID

Operation
Description

Set Up/
Run Hours

Draw
Number

Draw
Rev.

Plan
Code

Accept
Qty

Reject
Qty

Reject
Number

Insp.
Stamp

130

QC5- Inspect part completeness to step on W/O

0.00



QC

Memo

0.00

Quality Control

⇒ S 06/11/24



+

Ph ⇒

140

Pick Kit

0.00



Packaging

Memo

0.00

Packaging

9/11/16 (12) SP

150

QC4- 100% Inspect kits for completeness

0.00



QC

Memo

0.00



Quality Control

⇒ S 06/11/25



+

Dart Aerospace Ltd

W/O: 53596		WORK ORDER CHANGES						
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector	
		Parts missing D3953-7 Bk 52758	BK	09-11-24	1		 02/16/24	
		update No + Part List. need a PAR see last page					 02/16/24	

Part No: D350-607-043A PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____
 Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

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Item ID: D350-607-043A

Accept



Setup Start



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Stop



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Start Date: 09/11/2009 Start Qty: 1.00



Cust Item ID:

Required Date: 20/11/2009 Req'd Qty: 1.00



Customer:

Reference:

Run Start



Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____

Stop



QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Draw Number	Draw Rev.	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
--------------------------------	--------------------------	----------------------	----------------	--------------	--------------	---------------	---------------	------------------	----------------

160

0.00



Packaging

Packaging

Memo

0.00

Packaging

Identify and pack for shipping as per PPP D350-607-043A
Location: _____

Rev A

9/11/25 SP [Signature]

170

0.00



QC21- Final Inspection - Work Order Release

QC

Memo

0.00

Quality Control

09/11/26 [Signature]
R09-11-24
(1)

Picklist Print

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Work Order ID: 53596



Parent Item: D350-607-043A



Parent Item Name: Heli-Utility-Basket (Automatic Lid Opener)


Start Date: 09/11/2009

Required Date: 20/11/2009

Comments: IPP Rev A 09.11.03 new issue EC verified by:DD

Start Qty: 1.00

Required Qty: 1.00

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Remaining Qty To Pick	Qty Issued	Date Issued	Status
AN310-4  NUT		Purchased	No			120	Each	64.0000	2.0000			

Warehouse
Location

Loc Qty

Loc Code

Main Warehouse

ST

64

110098

14

112969

50

AN3-16A



Purchased No

Bolt

120

Each

87.0000

2.0000



Warehouse
Location

Loc Qty

Loc Code

Main Warehouse

ST

87

111965

87

AN3C11A



Purchased No

BOLT

120

Each

80.0000

2.0000



Warehouse
Location

Loc Qty

Loc Code

Main Warehouse

ST

80

112255

30

112969

50

9/11/10 SP

2x SP

9/11/10 SP

2x SP

9/11/10 SP @

2x SP

Picklist Print

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Work Order ID: 53596



Parent Item: D350-607-043A



Parent Item Name: Heli-Utility-Basket (Automatic Lid Opener)

Start Date: 09/11/2009

Required Date: 20/11/2009

Comments: IPP Rev A 09.11.03 new issue EC verified by:DD

Start Qty: 1.00

Required Qty: 1.00

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Remaining Qty To Pick	Qty Issued	Date Issued	Status
AN3C15A 		Purchased	No			120	Each	80.0000	2.0000			
Bolt												

9/11/16 SP

<u>Warehouse</u>	<u>Loc Qty</u>	<u>Loc Code</u>
<u>Location</u>		
Main Warehouse		
ST	80	
112255	30	
112969	50	

2x50

AN4-13A 	Purchased	No
Bolt		

<u>Warehouse</u>	<u>Loc Qty</u>	<u>Loc Code</u>
<u>Location</u>		
Main Warehouse		
ST	289	
107321	1	
107534	5	
107959	23	
109285	37	
110552	66	
110865	3	
111477	9	
111925	7	
112314	138	
17406	0	
51764	0	

9/11/16 SP

2x50

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Work Order ID: 53596

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Parent Item Name: Heli-Utility-Basket (Automatic Lid Opener)

Start Date: 09/11/2009


Required Date: 20/11/2009

Comments: IPP Rev A 09.11.03 new issue EC verified by:DD

Start Qty: 1.00

Required Qty: 1.00

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Remaining Qty To Pick	Qty Issued	Date Issued	Status
---------------------------------	------------------------	---------------	-------------	---------------------	------------------	-----------------	--------------------	----------------	--------------------------	---------------	----------------	--------

AN4-22A		Purchased	No			120	Each	280.0000	5.0000			
												
Bolt												

Warehouse Loc Qty Loc Code

Location

Main Warehouse

ST

280

104937

8

107715

5

108483


67

~~111965~~

200

9/11/10 SP

5254 +2

AN5-17A		Purchased	No			120	Each	84.0000	4.0000			
												
Bolt												

Warehouse Loc Qty Loc Code

Location

Main Warehouse

ST

84

102140

4

107939

2

110625

2

~~112314~~

26

112385

50

9/11/10 SP

4250

Picklist Print

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Work Order ID: 53596



Parent Item: D350-607-043A



Parent Item Name: Heli-Utility-Basket (Automatic Lid Opener)



Start Date: 09/11/2009

Required Date: 20/11/2009

Comments: IPP Rev A 09.11.03 new issue EC verified by:DD

Start Qty: 1.00

Required Qty: 1.00

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Remaining Qty To Pick	Qty Issued	Date Issued	Status
AN960JD416 		Purchased	No			120	Each	4,361.000	14.0000			
Washer											9/14/16	SY

<u>Warehouse</u>	<u>Loc Qty</u>	<u>Loc Code</u>
<u>Location</u>		
Main Warehouse		
ST	4361	
108161	503	
110523	340	
111279	101	
111916	482	
112314	2935	
16941	0	

14x50

Picklist Print

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Work Order ID: 53596



Parent Item: D350-607-043A



Parent Item Name: Heli-Utility-Basket (Automatic Lid Opener)

Start Date: 09/11/2009

Required Date: 20/11/2009

Comments: IPP Rev A 09.11.03 new issue EC verified by:DD

Start Qty: 1.00

Required Qty: 1.00

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Remaining Qty To Pick	Qty Issued	Date Issued	Status
AN960JD516 Washer		Purchased	No			120	Each	1,440.000	4.0000			



96116 80

<u>Warehouse</u>	<u>Loc Qty</u>	<u>Loc Code</u>
<u>Location</u>		
Main Warehouse		
ST	1440	
100564	2	
106167	6	
107534	34	
107959	43	
108246	46	
108672	2	
109059	49	
109752	22	
110363	46	
110523	57	
111279	39	
112082	64	
112314	500	
112794	30	
112828	500	

4x50

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Work Order ID: 53596



Parent Item: D350-607-043A



Parent Item Name: Heli-Utility-Basket (Automatic Lid Opener)

Start Date: 09/11/2009

Required Date: 20/11/2009

Comments: IPP Rev A 09.11.03 new issue EC verified by:DD

Start Qty: 1.00

Required Qty: 1.00

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Remaining Qty To Pick	Qty Issued	Date Issued	Status
---------------------------------	------------------------	---------------	-------------	---------------------	------------------	-----------------	--------------------	----------------	--------------------------	---------------	----------------	--------

AN960JD8		Purchased	No			120	Each	1,423.000	2.0000			
Washer												

9/14/16 SP

Warehouse Loc Qty Loc Code
Location

Main Warehouse

ST	1423	
107091	9	
108335	11	
110382	48	
110917	3	
111578	60	
112314	500	
112385	792	

D2022-101RevN/A Manufactured No



Spacer

120 Each 556.0000 5.0000



2x SP

9/14/16 SP

Warehouse Loc Qty Loc Code
Location

Main Warehouse

ST504	556	
45885	356	
50746	100	
52325	100	

5x SP

D2221RevH Manufactured No



350 Basket Base

120 Each 0.0000 1.0000



53598

① BR 09-11-24.

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Picklist Print

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Work Order ID: -53596



Parent Item: D350-607-043A



Parent Item Name: Heli-Utility-Basket (Automatic Lid Opener)

Start Date: 09/11/2009

Required Date: 20/11/2009

Comments: IPP Rev A 09.11.03 new issue EC verified by:DD

Start Qty: 1.00

Required Qty: 1.00

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Remaining Qty To Pick	Qty Issued	Date Issued	Status
D2258-200RevC		Manufactured	No			120	Each	8.0000	1.0000			
											9/11/09	SP
Placard 200lb												

Warehouse Loc Qty Loc Code
Location

Main Warehouse

ST

8

48350

8

1x50

D2530RevB Manufactured No

120

Each

8.0000

1.0000



9/11/09

SO

Handle Weldment

Warehouse Loc Qty Loc Code
Location

Main Warehouse

ST506

8

52280

8

1x50

D2535RevA Manufactured No

120

Each

44.0000

2.0000



9/11/09

SO

Spring

Warehouse Loc Qty Loc Code
Location

Main Warehouse

ST

44

46580

44

2x50

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Work Order ID: 53596



Parent Item: D350-607-043A



Parent Item Name: Heli-Utility-Basket (Automatic Lid Opener)

Start Date: 09/11/2009

Required Date: 20/11/2009

Comments: IPP Rev A 09.11.03 new issue EC verified by:DD

Start Qty: 1.00

Required Qty: 1.00

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Remaining Qty To Pick	Qty Issued	Date Issued	Status
D2537RevA1 Bushing		Manufactured	No			120	Each	107.0000	2.0000		9/11/09 SP	

Warehouse	Loc Qty	Loc Code
Location		
Main Warehouse		
ST	107	
52994	47	
53181	60	

52994



D2728-3RevB

Manufactured No



Dart Logo label

D2931RevA

Manufactured No



Bumper

Warehouse	Loc Qty	Loc Code
Location		
Main Warehouse		
ST	951	
46064	951	

2XSP

D2989-041RevD

Manufactured No



Basket Lid Assembly

D2989-043RevD

Manufactured No



Basket Lid Assembly

53600

53594

OK 09-11-24.

OK 09-11-24.

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Work Order ID: 53596



Parent Item: D350-607-043A



Parent Item Name: Heli-Utility-Basket (Automatic Lid Opener)

Start Date: 09/11/2009

Required Date: 20/11/2009

Comments: IPP Rev A 09.11.03 new issue EC verified by:DD

Start Qty: 1.00

Required Qty: 1.00

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Remaining Qty To Pick	Qty Issued	Date Issued	Status
D3953-11 Gas Spring Spacer		Manufactured	No			120	Each	30.0000	1.0000		9/11/10 SP	

<u>Warehouse</u>	<u>Loc Qty</u>	<u>Loc Code</u>
<u>Location</u>		
Main Warehouse		
ST139C	30	
52767	30	

D3953-15 Gas Spring Bracket		Manufactured	No			120	Each	26.0000	1.0000		1x SP 9/11/10 SP	
------------------------------------	--	--------------	----	--	--	-----	------	---------	--------	--	---------------------	--

<u>Warehouse</u>	<u>Loc Qty</u>	<u>Loc Code</u>
<u>Location</u>		
Main Warehouse		
ST	26	
52762	4	
53437	22	

D3953-17 Gas Spring Spacer		Manufactured	No			120	Each	14.0000	1.0000		9/11/10 SP	
-----------------------------------	--	--------------	----	--	--	-----	------	---------	--------	--	------------	--

<u>Warehouse</u>	<u>Loc Qty</u>	<u>Loc Code</u>
<u>Location</u>		
Main Warehouse		
ST	14	
52763	14	

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Work Order ID: 53596

Parent Item: D350-607-043A

Parent Item Name: Heli-Utility-Basket (Automatic Lid Opener)


Start Date: 09/11/2009

Required Date: 20/11/2009

Comments: IPP Rev A 09.11.03 new issue EC verified by:DD

Start Qty: 1.00

Required Qty: 1.00

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Remaining Qty To Pick	Qty Issued	Date Issued	Status
D3953-3 		Manufactured	No			120	Each	10.0000	1.0000			

Gas Spring Stud, Lid

<u>Warehouse</u>	<u>Loc Qty</u>	<u>Loc Code</u>
<u>Location</u>		
Main Warehouse		
ST139B	10	
52757	10	

53737

XL WD 09/11/20

D3953-5


Gas Spring Stud, Base

<u>Warehouse</u>	<u>Loc Qty</u>	<u>Loc Code</u>
<u>Location</u>		
Main Warehouse		
ST139C	20	
53434	20	

2x SD

D3953-9


Gas Spring Washer

<u>Warehouse</u>	<u>Loc Qty</u>	<u>Loc Code</u>
<u>Location</u>		
Main Warehouse		
ST139C	20	
52759	20	

9/11/16 SD

W

53612

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Shop Packet Print

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Picklist Print

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Work Order ID: 53596



Parent Item: D350-607-043A



Parent Item Name: Heli-Utility-Basket (Automatic Lid Opener)

Start Date: 09/11/2009

Required Date: 20/11/2009

Comments: IPP Rev A 09.11.03 new issue EC verified by:DD

Start Qty: 1.00

Required Qty: 1.00

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Remaining Qty To Pick	Qty Issued	Date Issued	Status
D3969-1 Gas Spring (Basket Lid)		Manufactured	No			120	Each	10.0000	1.0000			



B52889 9/11/16

Warehouse
Location

Loc Qty

Loc Code

Main Warehouse

ST

10

52800

10

k607-043RevCHG005 Manufactured No

120

Each

0.0000

1.0000



B53095 12/9/11/28

Pk Kit - D350-607-043

MS20600-AD4W3 Purchased No

120

Each

2,529.000

2.0000



9/11/16 SP

Cherry Rivets

Warehouse
Location

Loc Qty

Loc Code

Main Warehouse

ST

2529

102929

37

104715

10

106375

514

107939

1000

111636

968

2x500

Picklist Print

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Start Date: 09/11/2009

Required Date: 20/11/2009

Comments: IPP Rev A 09.11.03 new issue EC verified by:DD

Start Qty: 1.00

Required Qty: 1.00

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Remaining Qty To Pick	Qty Issued	Date Issued	Status
MS21042L3 Nut		Purchased	No			120	Each	3,194.000	2.0000		9/11/09	SP

Warehouse Loc Qty Loc Code

Location

Main Warehouse

ST	3194
110844	32
111274	27
<u>111668</u>	643
112314	1992
112385	500

2750

MS21042L4



Nut

Purchased

No

120

Each

5,764.000

7.0000



9/11/09 SP

Warehouse Loc Qty Loc Code

Location

Main Warehouse

ST	5764
110507	184
<u>111827</u>	5571
112314	9
15924	0

7x50 +2

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Start Date: 09/11/2009

Required Date: 20/11/2009

Comments: IPP Rev A 09.11.03 new issue EC verified by:DD

Start Qty: 1.00

Required Qty: 1.00

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Remaining Qty To Pick	Qty Issued	Date Issued	Status
MS21042L5		Purchased	No			120	Each	1,022.000	4.0000			
										9/11/10	JP	
Nut												

Warehouse Loc Qty Loc Code
Location

Main Warehouse

ST 1022

110382 10

111127 4

111636 15

112314 993

MS21043-3		Purchased	No			120	Each	4,923.000	4.0000			
										9/11/10	JP	
Nut												

Warehouse Loc Qty Loc Code
Location

OFFSHORE

FG 80

103691 80

Main Warehouse

ST 4843

111819 78

112243 39

112314 4726

Picklist Print

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Parent Item: D350-607-043A



Parent Item Name: Heli-Utility-Basket (Automatic Lid Opener)

Start Date: 09/11/2009

Required Date: 20/11/2009

Comments: IPP Rev A 09.11.03 new issue EC verified by:DD

Start Qty: 1.00

Required Qty: 1.00

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Remaining Qty To Pick	Qty Issued	Date Issued	Status
MS24665-2-12 		Purchased	No			120	Each	172.0000	2.0000			
COTTER PIN												

9/11/16 SP

Warehouse Loc Qty Loc Code

Location

Main Warehouse

ST

172

111499

172

2X50

AN960C10L

NAS1149C0332

Purchased

No

120

Each

0.0000

4.0000

Washer AN960C416

NAS1149C0432H

Purchased

No

120

Each

0.0000

2.0000

11/20/16 9/11/16 SP

Washer

NAS1515H4

Purchased

No

120

Each

194.0000

2.0000

9/11/16 SP (1X)

Warehouse Loc Qty Loc Code

Location

Main Warehouse

ST

194

111294

94

111525

100

2X50

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DART SERVICE INSTRUCTION

TO AMEND DRAWING D350-607 REV. F OR SUBSEQUENT APPROVED REVISION

REF CANADIAN STC: SH94-14

FAA STC: SR00213NY

EASA STC: EASA.IM.R.S.01405

UNCO

NO 53594
BLOCH-119

THE PURPOSE OF THIS DART SERVICE INSTRUCTION (DSI), IS TO PROVIDE OPERATORS OF AS350 / 355 ROTORCRAFT EQUIPPED WITH DART D350-607-041 HELI UTILITY BASKETS WITH AN UPGRADE KIT TO REPLACE THE EXISTING LID PROP ARM WITH 2 GAS SPRINGS.

FOR OPERATORS EQUIPPED WITH D350-607-043/045/047 HELI UTILITY BASKETS THIS DSI WILL PROVIDE AN UPGRADE KIT TO REPLACE THE EXISTING LID PROP ARM WITH 1 GAS SPRING.

ITEM No.	QTY -141	QTY -143	QTY -145	PART NUMBER	DESCRIPTION
1	X			D350-607-141	GAS SPRING KIT INSTALLATION (FOR USE ON -041 BASKET*)
2		X		D350-607-143	GAS SPRING KIT INSTALLATION (FOR USE ON -043/-047 BASKET*)
3			X	D350-607-145	GAS SPRING KIT INSTALLATION (FOR USE ON -045 BASKET*)
4	2		1	D3953-1	GAS SPRING BRACKET
5	2	1	1	D3953-3	GAS SPRING STUD (LID)
6	2	2	1	D3953-5	GAS SPRING STUD (BASE)
7	2	1	1	D3953-7	GAS SPRING SPACER
8	4	1	2	D3953-9	GAS SPRING WASHER
9	2	1	1	D3953-11	GAS SPRING SPACER
10	2		1	D3953-13	GAS SPRING SPACER
11		1		D3953-15	GAS SPRING BRACKET
12		1		D3953-17	GAS SPRING SPACER
13	2	1	1	D3969-1	GAS SPRING
14	4	2	2	AN3C11A	BOLT
15		2		AN3C15A	BOLT
18	4		2	AN3C16A	BOLT
19	4	2	2	AN310-4	CASTELLATED NUT
20	8	4	4	MS21043-3	NUT
21	4	2	2	MS24665-212	COTTER PIN
22	8	4	4	NAS1149C0332	WASHER
23	4	2	2	NAS1149C0432H	WASHER

***NOTE:** FOR CUSTOMERS WISHING TO ORDER NEW BASKETS WITH THE GAS SPRING KIT PRE-INSTALLED USE THE FOLLOWING NUMBERS:

D350-607-041 BASKET WITH GAS SPRING UPGRADE KIT = D350-607-041A

D350-607-043 BASKET WITH GAS SPRING UPGRADE KIT = D350-607-043A

D350-607-045 BASKET WITH GAS SPRING UPGRADE KIT = D350-607-045A

D350-607-047 BASKET WITH GAS SPRING UPGRADE KIT = D350-607-047A

CANADA
DEPARTMENT OF TRANSPORT
AIRCRAFT CERTIFICATION
BRANCH
DAO # 01-O-01

APPROVED
BY: *[Signature]*
D. SHEPHERD (DE # 02)

DATE: 09.09.15
CERT. NO.: SH94-14
ISSUE NO.: 4

A	NEW ISSUE	AJS	09.09.15
REV.	DESCRIPTION	BY	DATE
DESIGN	AJS	DART AEROSPACE LTD	
DRAWN	AJS	HAWKESBURY, ONTARIO, CANADA	
CHECKED	<i>[Signature]</i>	DRAWING NO.	REV. A
MFG. APPR.	N/A	DSI 9473	SHEET 1 OF 8
APPROVED	<i>[Signature]</i>	TITLE	SCALE
DE APPR.	<i>[Signature]</i>	GAS SPRING UPGRADE KIT	NTS
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FOR D350-607-041 BASKETS, REPLACE THE EXISTING D2332-041 PROP ARM ASSEMBLY AS FOLLOWS:

D350-607-141 GAS SPRING KIT INSTALLATION

NOTE: ONCE THIS MODIFICATION IS COMPLETE YOU WILL NOT BE ABLE TO RE-INSTALL THE D2332-041 PROP ARM.

- 1) REMOVE THE D2332-041 PROP ARM.
- 2) GRIND FLUSH THE D2327-3 SPACER BUSHING ON BOTH ENDS OF THE BASKET AS SHOWN IN FIGURE 1 (IT IS PERMISSIBLE TO GRIND ALL 4 SPACERS FLUSH). TOUCH UP PAINT PER ICA-D350-607 REV. 0 SECTION 5.1 ITEM 4.
- 3) LOCATE THE D3953-1 GAS SPRING BRACKET AS SHOWN IN FIGURE 1. TRIM STEEL MESH LOCALLY AS REQUIRED. TOUCH UP PAINT PER ICA-D350-607 REV. 0 SECTION 5.1 ITEM 4. TRANSFER MARK AND DRILL 2X Ø0.194 HOLES THRU THE BASKET LID SQUARE TUBE STRUCTURE AS SHOWN IN DETAIL A. INSTALL THE D3953-1 GAS SPRING BRACKET & D3953-13 GAS SPRING SPACER USING 2X AN3C16A BOLT, 2X NAS1149C0332 WASHER & 2X MS21043-3 NUT AS SHOWN IN VIEW E-E.
- 4) LOCATE THE D3953-5 GAS SPRING STUD AS SHOWN IN FIGURE 1. TRIM STEEL MESH LOCALLY AS REQUIRED. TOUCH UP PAINT PER ICA-D350-607 REV. 0 SECTION 5.1 ITEM 4. TRANSFER MARK AND DRILL 2X Ø0.194 HOLES THRU THE BASKET BASE SQUARE TUBE STRUCTURE AS SHOWN IN DETAIL B. FASTEN D3953-5 IAW VIEW F-F USING 2X AN3C11A BOLT, 2X NAS1149C0332 WASHER & 2X MS21043-3 NUT.
- 5) INSTALL 1X D3953-11 GAS SPRING SPACER ONTO THE D3953-5 STUD AS SHOWN IN VIEW F-F. INSTALL THE LARGE END OF THE D3969-1 GAS SPRING SPRING ONTO THE D3953-5 GAS SPRING STUD AND FASTEN IN PLACE USING 1X D3953-9 GAS SPRING WASHER, 1X NAS1149C0432H WASHER, 1X AN310-4 CASTELATTED NUT & 1X MS24665-212 COTTER PIN AS SHOWN IN VIEW F-F. INSTALL COTTER PIN PER MS33540 OR AC43.13 CHAPTER 7-127.
- 6) INSERT THE D3953-3 GAS SPRING STUD INTO THE D3953-1 GAS SPRING BRACKET & INSERT THE D3953-7 GAS SPRING SPACER ONTO THE D3953-3 GAS SPRING AS SHOWN IN VIEW E-E. RAISE THE BASKET LID AND INSTALL THE ROD END OF THE D3969-1 GAS SPRING ONTO THE D3953-3 GAS SPRING STUD USING 1X D3953-9 GAS SPRING WASHER, 1X NAS1149C0432H WASHER, 1X AN310-4 CASTELATTED NUT & 1X MS24665-212 COTTER PIN AS SHOWN IN VIEW E-E. INSTALL COTTER PIN PER MS33540 OR AC43.13 CHAPTER 7-127.

NOTE: THE D3953-3 GAS SPRING STUD CAN BE HELD IN PLACE WITH A $\frac{9}{16}$ OPEN END SPANNER / WRENCH.

NOTE: WITH THE LID IN THE CLOSED POSITION THE GAS SPRING SHOULD NOT BE FULLY COMPRESSED.

7) REPEAT STEPS 2 THROUGH 6 AT THE OTHER END OF THE BASKET.




8) TEST THE INSTALLATION. IF INSTALLED PROPERLY THE GAS SPRINGS SHOULD ASSIST THE BASKET USER IN BOTH OPENING AND CLOSING THE BASKET LID.

CANADA
DEPARTMENT OF TRANSPORT
AIRCRAFT CERTIFICATION
BRANCH
DAO # 01-O-01

APPROVED

BY: 
D. SHEPHERD (DE # 02)

DATE: 09.09.15
CERT. NO.: SH94-14
ISSUE NO.: 4

DESIGN	AJS	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	AJS		
CHECKED		DRAWING NO.	REV. A
MFG. APPR.	N/A	DSI 9473	SHEET 2 OF 8
APPROVED		TITLE	SCALE
DE APPR.		GAS SPRING UPGRADE KIT	NTS
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FOR D350-607-043/-047 BASKETS REPLACE THE EXISTING D2332-041 PROP ARM ASSEMBLY AS FOLLOWS:

D350-607-143 GAS SPRING KIT INSTALLATION

NOTE: THIS KIT MAY BE INSTALLED AT EITHER END OF THE BASKET. HOWEVER, THE PROP ARM MUST BE REMOVED IN EITHER CASE AS IT WILL INTERFERE WITH THE FUNCTION OF THE GAS SPRING.

- 1) REMOVE THE D2332-041 PROP ARM.
 - 2) GRIND FLUSH THE D2327-3 SPACER BUSHING ON THE END OF THE BASKET WHERE THE GAS SPRING KIT IS BE INSTALLED AS SHOWN IN FIGURE 2 (IT IS PERMISSIBLE TO GRIND ALL 4 SPACERS FLUSH). TOUCH UP PAINT PER ICA-D350-607 REV. 0 SECTION 5.1 ITEM 4.
 - 3) LOCATE THE D3953-15 GAS SPRING BRACKET AS SHOWN IN FIGURE 2. TRIM STEEL MESH LOCALLY AS REQUIRED. TOUCH UP PAINT PER ICA-D350-607 REV. 0 SECTION 5.1 ITEM 4. TRANSFER MARK AND DRILL 2X Ø0.194 HOLES THRU THE BASKET LID SQUARE TUBE STRUCTURE AS SHOWN IN DETAIL C. INSTALL THE D3953-15 GAS SPRING BRACKET & D3953-17 GAS SPRING SPACER USING 2X AN3C15A BOLT, 2X NAS1149C0332 WASHER & 2X MS21043-3 NUT AS SHOWN IN VIEW G-G.
 - 4) LOCATE THE D3953-5 GAS SPRING STUD AS SHOWN IN FIGURE 2. TRIM STEEL MESH LOCALLY AS REQUIRED. TOUCH UP PAINT PER ICA-D350-607 REV. 0 SECTION 5.1 ITEM 4. TRANSFER MARK AND DRILL 2X Ø0.194 HOLES THRU THE BASKET BASE SQUARE TUBE STRUCTURE AS SHOWN IN DETAIL D. INSTALL 2X AN3C11A BOLT, 2X NAS1149C0332 WASHER & 2X MS21043-3 NUT AS SHOWN IN VIEW H-H. INSTALL THE ROD END OF THE D3969-1 GAS SPRING ONTO THE D3953-3 GAS SPRING STUD USING 1X D3953-9 GAS SPRING WASHER, 1X NAS1149C0432H WASHER, 1X AN310-4 CASTELATTED NUT & 1X MS24665-212 COTTER PIN AS SHOWN IN VIEW H-H. INSTALL COTTER PIN PER MS33540 OR AC43.13 CHAPTER 7-127 .
 - 5) INSERT THE D3953-3 GAS SPRING STUD INTO THE D3953-15 GAS SPRING BRACKET & INSERT THE D3953-7 GAS SPRING SPACER ONTO THE D3953-3 GAS SPRING STUD AS SHOWN IN VIEW G-G. RAISE THE BASKET LID AND INSTALL THE D3969-1 GAS SPRING ONTO THE D3953-3 GAS SPRING STUD AND FASTEN IN PLACE USING 1X D3953-9 GAS SPRING WASHER, 1X NAS1149C0432H WASHER, 1X AN310-4 CASTELATTED NUT & 1X MS24665-212 COTTER PIN AS SHOWN IN VIEW G-G. INSTALL COTTER PIN PER MS33540 OR AC43.13 CHAPTER 7-127.
- NOTE:** THE D3953-3 GAS SPRING STUD CAN BE HELD IN PLACE WITH A $\frac{9}{16}$ OPEN END SPANNER / WRENCH.
- NOTE:** WITH THE LID IN THE CLOSED POSITION THE GAS SPRING SHOULD NOT BE FULLY COMPRESSED.
- 6) TEST THE INSTALLATION. IF INSTALLED PROPERLY THE GAS SPRING SHOULD ASSIST THE BASKET USER IN BOTH OPENING AND CLOSING THE BASKET LID.

CANADA
DEPARTMENT OF TRANSPORT
AIRCRAFT CERTIFICATION
BRANCH
DAO # 01-O-01

APPROVED

BY: [Signature]
D. SHEPHERD (DE # 02)

DATE: 09.09.15
CERT. NO.: SH94-14
ISSUE NO.: 4

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CHECKED	<u>[Signature]</u>	DRAWING NO.	REV. A
MFG. APPR.	N/A	DSI 9473	SHEET 3 OF 8
APPROVED	<u>[Signature]</u>	TITLE	SCALE
DE APPR.	<u>[Signature]</u>	GAS SPRING UPGRADE KIT	NTS
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FOR D350-607-045 BASKETS REPLACE THE EXISTING D2332-041 PROP ARM ASSEMBLY AS FOLLOWS:

D350-607-145 GAS SPRING KIT INSTALLATION

NOTE: THIS KIT MAY BE INSTALLED AT EITHER END OF THE BASKET. HOWEVER, THE PROP ARM MUST BE REMOVED IN EITHER CASE AS IT WILL INTERFERE WITH THE FUNCTION OF THE GAS SPRING.

- 1) REMOVE THE D2332-041 PROP ARM.
 - 2) GRIND FLUSH THE D2327-3 SPACER BUSHING ON THE END OF THE BASKET WHERE THE GAS SPRING KIT IS BE INSTALLED AS SHOWN IN FIGURE 1 (IT IS PERMISSIBLE TO GRIND ALL 4 SPACERS FLUSH). TOUCH UP PAINT PER ICA-D350-607 REV. 0 SECTION 5.1 ITEM 4.
 - 3) LOCATE THE D3953-1 GAS SPRING BRACKET AS SHOWN IN FIGURE 1. TRIM STEEL MESH LOCALLY AS REQUIRED. TOUCH UP PAINT PER ICA-D350-607 REV. 0 SECTION 5.1 ITEM 4. TRANSFER MARK AND DRILL 2X Ø0.194 HOLES THRU THE BASKET LID SQUARE TUBE STRUCTURE AS SHOWN IN DETAIL A. INSTALL THE D3953-1 GAS SPRING BRACKET & D3953-13 GAS SPRING SPACER USING 2X AN3C16A BOLT, 2X NAS1149C0332 WASHER & 2X MS21043-3 NUT AS SHOWN IN VIEW E-E.
 - 4) LOCATE THE D3953-5 GAS SPRING STUD AS SHOWN IN FIGURE 1. TRIM STEEL MESH LOCALLY AS REQUIRED. TOUCH UP PAINT PER ICA-D350-607 REV. 0 SECTION 5.1 ITEM 4. TRANSFER MARK AND DRILL 2X Ø0.194 HOLES THRU THE BASKET BASE SQUARE TUBE STRUCTURE AS SHOWN IN DETAIL B. FASTEN D3953-5 IAW VIEW F-F USING 2X AN3C11A BOLT, 2X NAS1149C0332 WASHER & 2X MS21043-3 NUT.
 - 5) INSTALL 1X D3953-11 GAS SPRING SPACER ONTO THE D3953-5 STUD AS SHOWN IN VIEW F-F. INSTALL THE LARGE END OF THE D3969-1 GAS SPRING SPRING ONTO THE D3953-5 GAS SPRING STUD AND FASTEN IN PLACE USING 1X D3953-9 GAS SPRING WASHER, 1X NAS1149C0432H WASHER, 1X AN310-4 CASTELATTED NUT & 1X MS24665-212 COTTER PIN AS SHOWN IN VIEW F-F. INSTALL COTTER PIN PER MS33540 OR AC43.13 CHAPTER 7-127.
 - 6) INSERT THE D3953-3 GAS SPRING STUD INTO THE D3953-1 GAS SPRING BRACKET & INSERT THE D3953-7 GAS SPRING SPACER ONTO THE D3953-3 GAS SPRING AS SHOWN IN VIEW E-E. RAISE THE BASKET LID AND INSTALL THE ROD END OF THE D3969-1 GAS SPRING ONTO THE D3953-3 GAS SPRING STUD USING 1X D3953-9 GAS SPRING WASHER, 1X NAS1149C0432H WASHER, 1X AN310-4 CASTELATTED NUT & 1X MS24665-212 COTTER PIN AS SHOWN IN VIEW E-E. INSTALL COTTER PIN PER MS33540 OR AC43.13 CHAPTER 7-127.
- NOTE:** THE D3953-3 GAS SPRING STUD CAN BE HELD IN PLACE WITH A $\frac{9}{16}$ OPEN END SPANNER / WRENCH.

NOTE: WITH THE LID IN THE CLOSED POSITION THE GAS SPRING SHOULD NOT BE FULLY COMPRESSED.




- 7) TEST THE INSTALLATION. IF INSTALLED PROPERLY THE GAS SPRING SHOULD ASSIST THE BASKET USER IN BOTH OPENING AND CLOSING THE BASKET LID.

CANADA
DEPARTMENT OF TRANSPORT
AIRCRAFT CERTIFICATION
BRANCH
DAO # 01-O-01

APPROVED

BY: 
D. SHEPHERD (DE # 02)

DATE: 09.09.15
CERT. NO.: SH94-14
ISSUE NO.: 4

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MFG. APPR.	N/A	DSI 9473	SHEET 4 OF 8
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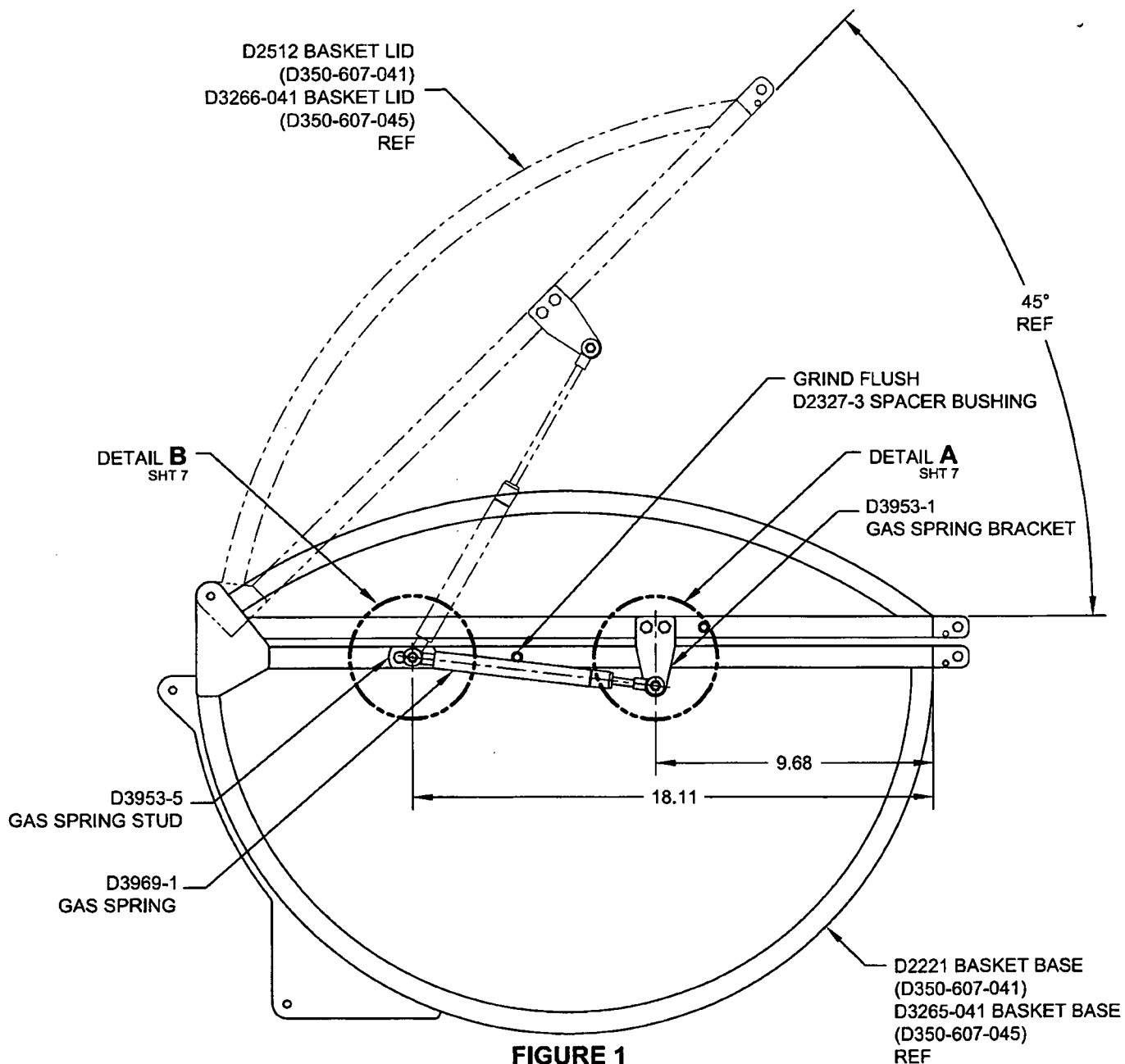


FIGURE 1

D350-607-141 GAS SPRING KIT INSTALLATION

(BOTH ENDS)

D350-607-145 GAS SPRING KIT INSTALLATION

(1 END ONLY)

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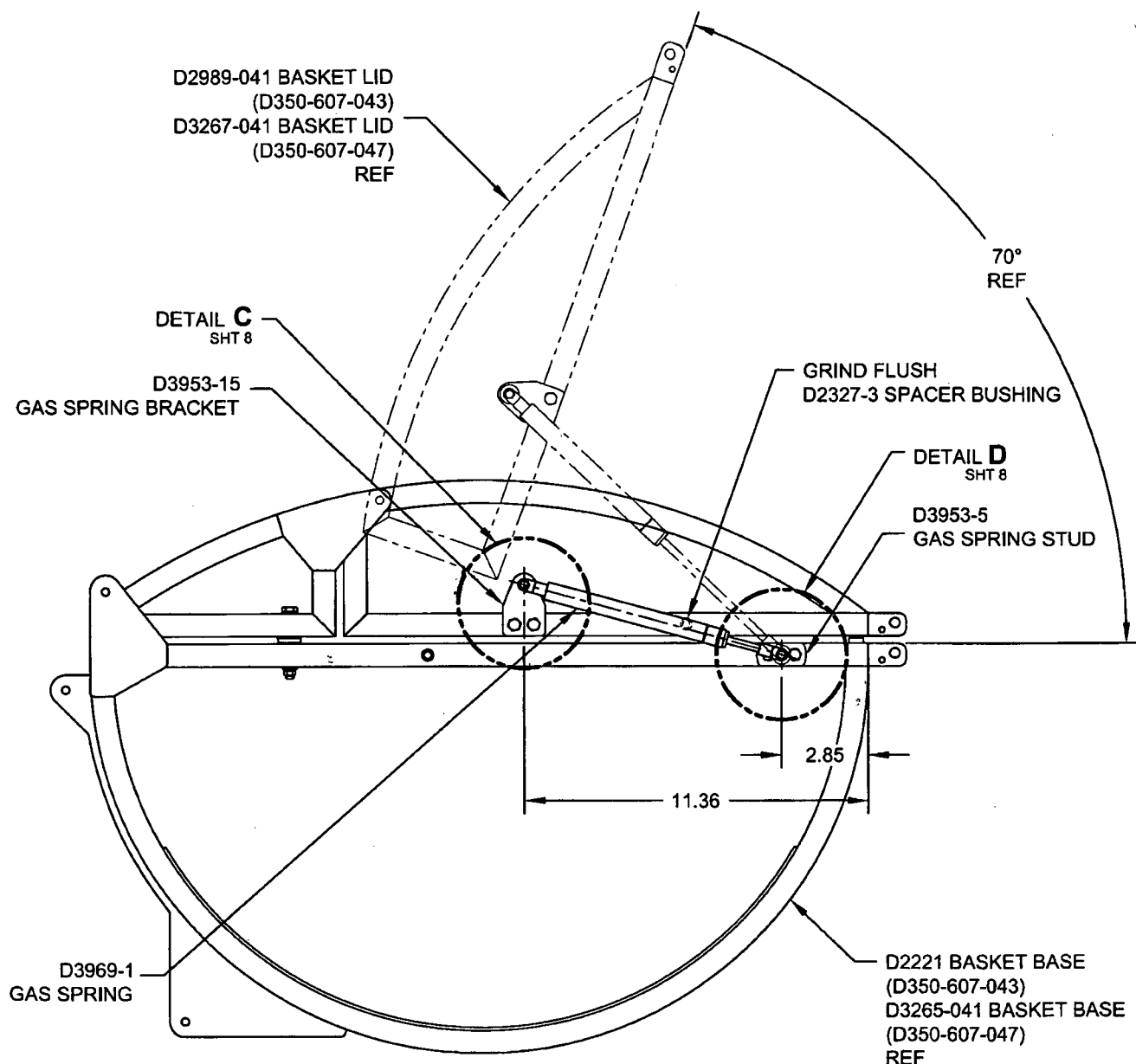


FIGURE 2
D350-607-143 GAS SPRING KIT INSTALLATION
 (1 END ONLY)

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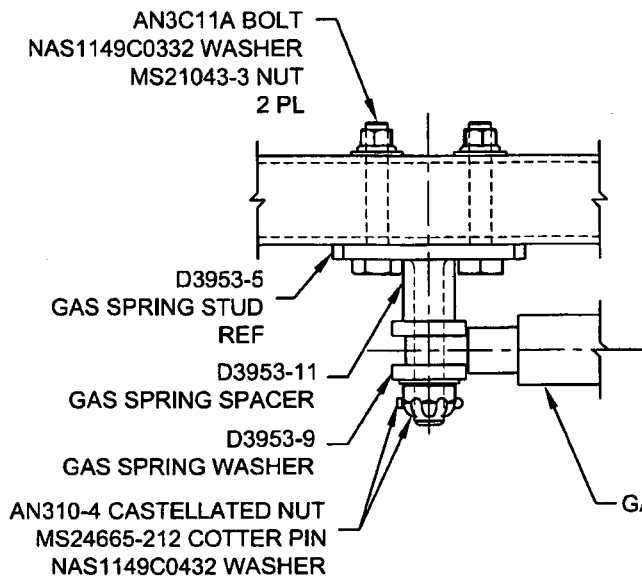
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BY: *[Signature]*
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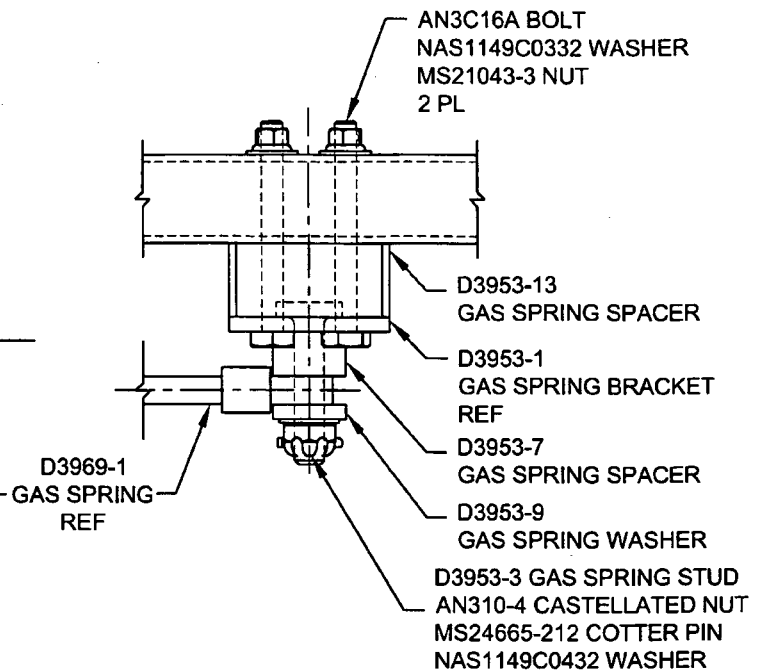
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MFG. APPR.	N/A	DSI 9473	SHEET 6 OF 8
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DE APPR.	<i>[Signature]</i>	GAS SPRING UPGRADE KIT	NTS
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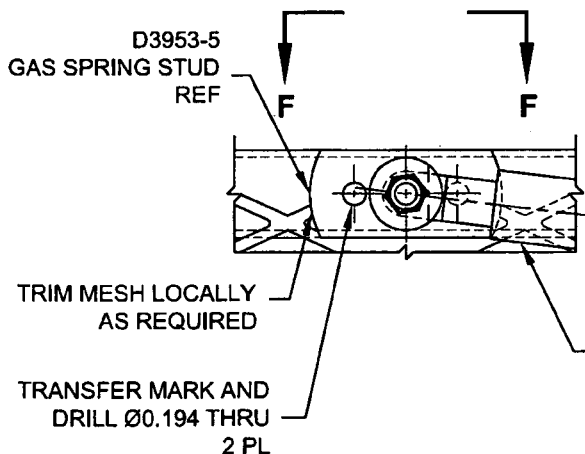
w/0 53596



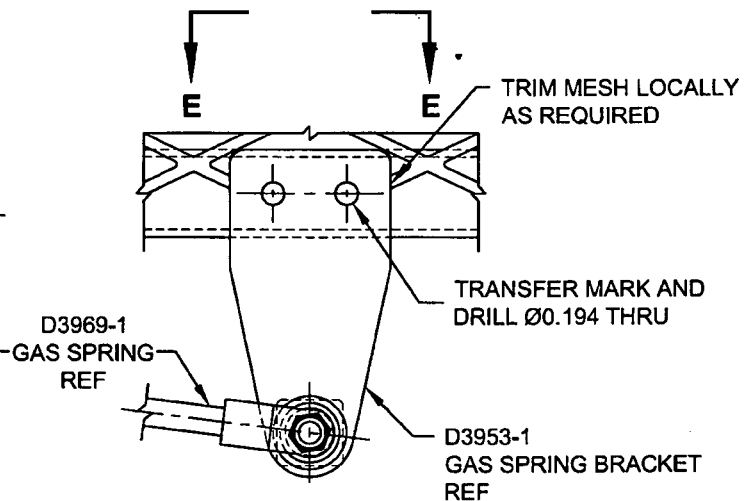
VIEW F-F



VIEW E-E



DETAIL B



DETAIL A

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DATE: 09.09.15
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DRAWN	AJS		
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MFG. APPR.	N/A	DSI 9473	SHEET 7 OF 8
APPROVED	<i>[Signature]</i>	TITLE	SCALE
DE APPR.	<i>[Signature]</i>	GAS SPRING UPGRADE KIT	NTS
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AN3C15A BOLT
NAS1149C0332 WASHER
MS21043-3 NUT
2 PL

D3953-17
GAS SPRING SPACER
D3953-15
GAS SPRING BRACKET
REF
D3953-7
GAS SPRING SPACER
D3953-9
GAS SPRING WASHER
D3953-3 GAS SPRING STUD
AN310-4 CASTELLATED NUT
MS24665-212 COTTER PIN
NAS1149C0432 WASHER

VIEW G-G

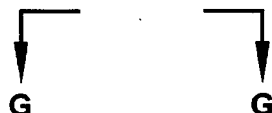
AN3C11A BOLT
NAS1149C0332 WASHER
MS21043-3 NUT
2 PL

D3969-1
GAS SPRING
REF

D3953-5
GAS SPRING STUD
REF
D3953-11
GAS SPRING SPACER
D3953-9
GAS SPRING WASHER

AN310-4 CASTELLATED NUT
MS24665-212 COTTER PIN
NAS1149C0432 WASHER

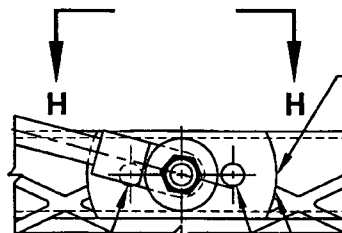
VIEW H-H



D3953-15
GAS SPRING BRACKET
REF
TRANSFER MARK AND
DRILL Ø0.194 THRU

TRIM MESH LOCALLY
AS REQUIRED

DETAIL C



D3953-5
GAS SPRING STUD
REF

TRIM MESH LOCALLY
AS REQUIRED
TRANSFER MARK AND
DRILL Ø0.194 THRU

DETAIL D

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DEPARTMENT OF TRANSPORT
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MFG. APPR.	N/A	DSI 9473	SHEET 8 OF 8
APPROVED	<i>[Signature]</i>	TITLE	SCALE
DE APPR.	<i>[Signature]</i>	GAS SPRING UPGRADE KIT	NTS
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21/6 53596

11. 1. 28. 2010

DART SERVICE INSTRUCTION

TO AMEND DRAWING D350-607 REV. F OR SUBSEQUENT APPROVED REVISION

REF CANADIAN STC: SH94-14

FAA STC: SR00213NY

EASA STC: EASA.IM.R.S.01405

THE PURPOSE OF THIS DART SERVICE INSTRUCTION (DSI), IS TO PROVIDE OPERATORS OF AS350 / 355 ROTORCRAFT EQUIPPED WITH DART D350-607-041 HELI UTILITY BASKETS WITH AN UPGRADE KIT TO REPLACE THE EXISTING LID PROP ARM WITH 2 GAS SPRINGS.

FOR OPERATORS EQUIPPED WITH D350-607-043/-045/-047 HELI UTILITY BASKETS THIS DSI WILL PROVIDE AN UPGRADE KIT TO REPLACE THE EXISTING LID PROP ARM WITH 1 GAS SPRING.

ITEM No.	QTY -141	QTY -143	QTY -145	PART NUMBER	DESCRIPTION
1	X			D350-607-141	AUTOMATIC LID OPENER INSTL (FOR USE ON -041 BASKET*)
2		X		D350-607-143	AUTOMATIC LID OPENER INSTL (FOR USE ON -043/-047 BASKET*)
3			X	D350-607-145	AUTOMATIC LID OPENER INSTL (FOR USE ON -045 BASKET*)
4	2		1	D3953-1	GAS SPRING BRACKET
5	2	1	1	D3953-3	GAS SPRING STUD (LID)
6	2	1	1	D3953-5	GAS SPRING STUD (BASE)
7	2	1	1	D3953-7	GAS SPRING SPACER
8	4	2	2	D3953-9	GAS SPRING WASHER
9	2	1	1	D3953-11	GAS SPRING SPACER
10	2		1	D3953-13	GAS SPRING SPACER
11		1		D3953-15	GAS SPRING BRACKET
12		1		D3953-17	GAS SPRING SPACER
13	2	1	1	D3969-1	GAS SPRING
14	4	2	2	AN3C11A	BOLT
15		2		AN3C15A	BOLT
18	4		2	AN3C16A	BOLT
19	4	2	2	AN310-4	CASTELLATED NUT
20	8	4	4	MS21043-3	NUT
21	4	2	2	MS24665-212	COTTER PIN
22	8	4	4	NAS1149C0332R	WASHER (OR AN960C10L)
23	4	2	2	NAS1149C0432R	WASHER (OR AN960C416L)

***NOTE:** FOR CUSTOMERS WISHING TO ORDER NEW BASKETS WITH THE LID OPENER PRE-INSTALLED USE THE FOLLOWING NUMBERS:

D350-607-041 BASKET WITH AUTOMATIC LID OPENER INSTALLED = D350-607-041A

D350-607-043 BASKET WITH AUTOMATIC LID OPENER INSTALLED= D350-607-043A

D350-607-045 BASKET WITH AUTOMATIC LID OPENER INSTALLED = D350-607-045A

D350-607-047 BASKET WITH AUTOMATIC LID OPENER INSTALLED = D350-607-047A

C	SHEET 1 PL, -143 INSTL, ITEM 6 QTY WAS 2, ITEM 7 WAS 0.	AJS	09.11.11
B	SHT 1 P/L ITEM 22 WAS NAS1149C0332 ITEM 23 WAS NAS1149C0432H. ALL OTHER SHEETS UPDATED ACCORDINGLY. (REASON: DRAFTING ERROR) INSTALLATIONS RENAMED.	AJS	09.11.06
A	NEW ISSUE	AJS	09.09.15
REV.	DESCRIPTION	BY	DATE
DESIGN	AJS	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	AJS		
CHECKED		DRAWING NO.	REV. C
MFG. APPR.	N/A	DSI 9473	SHEET 1 OF 8
APPROVED		TITLE	SCALE
DE APPR.		AUTOMATIC LID OPENER INSTL	NTS
DATE	09.11.11	<small>COPYRIGHT © 2009 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.</small>	

CANADA
DEPARTMENT OF TRANSPORT
AIRCRAFT CERTIFICATION
BRANCH
DAO # 01-O-01

APPROVED

BY: 
D. SHEPHERD (DE # 02)

DATE: 09.11.11
CERT. NO.: SH94-14
ISSUE NO.: 4